

# INTERNATIONAL SEARCH REPORT

International application  
PCT/IB2005/00247

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61K 39/00 (2006.01) , A61P 35/00 (2006.01) , A61K 38/17 (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: A61K 39/00 (2000.01) , A61P 35/00 (2000.01) , A61K 38/17 (2000.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

CANADIAN PATENT DATABASE, DELPHION, USPTO, ESPACENET, STN / BIOSIS, PUBMED.

Keywords: Mucinous glycoprotein, MUC-1, liposome, vaccine, Lipid A, interleukin-2, BLP25, non-small cell lung cancer, prostate cancer, GENOMEQUEST.

Sequences: SEQ ID NOs: 1 and 2.

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MORSE, M.A. Technology evaluation: BLP-25, Biomira Inc. Curr. Opin. Mol. Ther. February 2001, Vol.3, No.1, Pages 102-105, ISSN: 1464-8431.	1, 3-18 and 20-30
Y	See the entire document	2-17 and 19-30
X	US 2002/051813 A1 (BONI, L. et al.), 2 May 2002.	1, 3-18 and 20-30
Y	See paragraphs 0039, 0043 and 0044.	2-17 and 19-30

[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

- Special categories of cited documents :
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

4 January 2006 (04-01-2006)

Date of mailing of the international search report

27 January 2006 (27-01-2006)

Name and mailing address of the ISA/CA  
Canadian Intellectual Property Office  
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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IB2005/002479

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/43699 A2 (BONI, L. et al.), 6 June 2002	1, 3-18 and 20-30
Y	See Page 8, line 25 to page 9, line 27.	2-17 and 19-30
P,X,Y	PANTUCK, A.J. et al. Phase I trial of antigen-specific gene therapy using a recombinant vaccinia virus encoding MUC-1 and IL-2 in MUC-1-positive patients with advanced prostate cancer. J Immunother. May-Jun 2004, Vol.27, No.3, Pages 240-253, ISSN: 1524-9557.	2-17 and 19-30
Y	SCHUT, I.C. et al. MUC1 expression, splice variant and short form transcription (MUC1/Z, MUC1/Y) in prostate cell lines and tissue. BJU International February 2003, Vol. 91, No. 3, Pages 278-283, ISSN: 1464-4096. See abstract.	2-17 and 19-30

**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of the first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1. ☒ Claim Nos. : 1-30  
because they relate to subject matter not required to be searched by this Authority, namely :  
  
Claims 1-30, directed to a method for treatment of the human or animal body by surgery or therapy which the International Search Authority is not required to search under Rule 39.1 (iv) of the PCT. Regardless, this Authority has carried out a search based on the alleged effect(s) or purpose(s)/use(s) of the product defined in claims 1-30.
2. ☐ Claim Nos. :  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :
3. ☐ Claim Nos. :  
because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows :

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claim Nos. :
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claim Nos. :

**Remark on Protest** ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.  
☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.  
☐ No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
**PCT/IB2005/002479**

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US2002051813 A1	02-05-2002	NONE	
WO0243699 A2	06-06-2002	AU1999802 A CA2436348 A1 EP1343476 A2 JP2004522717T T US2002160039 A1 WO0243699 A3	11-06-2002 06-06-2002 17-09-2003 29-07-2004 31-10-2002 06-06-2002